

U.S. Department of Commerce, Patent and Trademark Office	Application No.: 09/912,723
	Filing date: July 23, 2001
INFORMATION DISCLOSURE STATEMENT BY APPLICANT	Inventors: Mark A. Lauer
	Group Art Unit:
ELECTROMAGNETIC HEADS, FLEXURES, GIMBALS AND ACTUATORS FORMED ON AND FROM A WAFER SUBSTRATE	Examiner name:
	Attorney Docket No. LAUM-004

U.S. Patent Documents

*Examiner Initial		Document Number	Date	Name	Class	Subclass	Filing Date, If Appropriate
WK	AA	5,745,319	04/28/98	Takekado	360	78.05	
WK	AB	5,856,896	01/05/99	Berg et al.	360	104	
WK	AC	5,898,544	04/27/99	Krinke et al.	360	104	
WK	AD	6,002,549	12/14/99	Berman et al.	360	104	
WK	AE	6,046,884	04/04/00	Crane	360	104	
WK	AF	6,046,888	04/04/00	Krinke et al.	360	104	
WK	AG	6,069,771	05/30/00	Boutaghou et al.	360	104	
WK	AH	6,072,665	06/06/00	Ferrari et al.	360	104	
WK	AI	6,078,468	06/20/00	Fiske	360	104	
WK	AJ	6,088,194	07/11/00	Imaino et al.	360	106	
WK	AK	6,115,223	09/05/00	Berg et al.	360	294.8	

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							Translation	
		Document	Date	Country	Class	Subclass	Yes	No
	AL							
	AM							
	AN							

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

WK	AO	Internet article entitled "IBM High-Bandwidth, High-Accuracy MEMS Micropositioners for Magnetic Disk Drives", internet address http://regulus.berkeley.edu/horowitz/research/DMEMS/re-html.html , printed 7/31/00, 17 pages.
WK	AP	Data Storage article entitled "Surveying micro-positioning technology for advanced disk drives", by Bill McInerney, August, 2000, Vol. 7, Issue 8., 4 pages, printed 8/21/00.
WK	AQ	Internet article entitled "Low-Sintering PZT-Ceramics for Advanced Actuators", by A. Schonecker et al., D-01277 Dresden, Germany, 9 pages, printed 7/22/01.
WK	AR	Morgan Electro Ceramics article entitled "Piezo Ceramic Products; Technical Information; Introduction Piezoelectric Ceramics", dated 5/16/01.

Examiner *Wael Kly*

Date Considered

5-14-03

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with your communication to applicant.

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	Attorney Docket No. LAUM-004

U.S. Patent Documents

*Examiner Initials	Document Number	Date	Name	Class	Subclass	Filing Date, If Appropriate
LWK	BA	6,246,552	06/12/01	Soeno et al.	360	294.4
	BB					
	BC					
	BD					
	BE					
	BF					
	BG					
	BH					
	BI					
	BJ					
	BK					

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Foreign Patent Documents

						Translation	
	Document	Date	Country	Class	Subclass	Yes	No
	BL						
	BM						
	BN						

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

LWK	BO	Internet article entitled "Silicon Micromachined Electromagnetic Microactuators for Rigid Disk Drives", by Weillong Tang et al., 2 pages.
LWK	BP	Internet article entitled "Keeping Heads on Track with Dual-Stage Actuators", by Fred Stevens et al., dated June, 2000, Vol. 7, Issue 6, website http://ds.pennwellnet.com/content/Arctic...ON_ID=14&ARTICLE_ID=75290&VERSION_NUM=2 , 6 pages, printed 7/6/00.
LWK	BQ	Search-in-Print™ Report entitled "Processing of PZT Ceramics C1523", 154 references from the Engineered Materials Abstracts Database.
	BR	

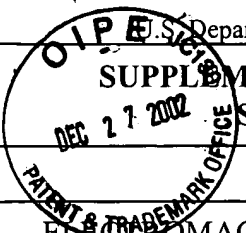
Examiner

LWK Kly

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	SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT BY APPLICANT		Filing date: July 23, 2001
			Inventors: Mark A. Lauer
	ELECTROMAGNETIC HEADS, FLEXURES, GIMBALS AND ACTUATORS FORMED ON AND FROM WAFER SUBSTRATE		Group Art Unit: 2652
			Examiner name: Unknown
Attorney Docket No. LAUM-004			

U.S. Patent Documents							
*Examiner Initial		Document Number	Date	Name	Class	Subclass	Filing Date, If Appropriate
WK	A	4,188,645	02/12/80	Ragle et al.	370	75	
WK	B	4,583,135	04/15/86	Kimura	360	77	
WK	C	5,898,541	04/27/99	Boutaghou et al.	360	109	
WK	D	5,912,526	06/15/99	Okawa et al.	310	328	
WK	E	6,052,251	04/18/00	Mohajerani et al.	360	78.05	
WK	F	6,108,175	08/22/00	Hawwa et al.	360	294.4	
WK	G	6,118,637	09/12/00	Wright et al.	360	294.4	
WK	H	2001/0009776	07/26/01	Ferrari et al.	438	50	
WK	I	2001/0012172	08/09/01	Hawwa et al.	360	78.05	
WK	J	2001/0017750	08/30/01	Bonin	360	294.6	
WK	K	2001/0055182	12/27/01	Wu et al.	360	294.4	
WK	L	2002/0018322	02/14/02	Crane et al.	360	294.5	
WK	M	2002/0039261	04/04/02	Sividasan et al.	360	294.4	

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OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)		
WK	N	Search-in-Print Report entitled "Processing of PZT Ceramics", containing 154 references (abstracts) from the Engineered Materials Abstracts database, each with its own date.
WK	O	IEEE Transactions on Magnetics article entitled "Piezoelectric Piggy-Back Microactuator for Hard Disk Drive", by Y. Soeno et al., vol. 35, No. 2, March 1999, pp. 983-987.
WK	P	IEEE Transactions on Magnetics article entitled "Piezo-Based Milliactuator on a Partially Etched Suspension", by S. Arya et al., vol. 37, No. 2, March 2001, pp. 934-939.
WK	Q	IEEE Transactions on Magnetics article entitled "Development of a Φ -Shaped Actuated Suspension for 100-kTPI Hard Disk Drives", by M. Tokuyama et al., vol. 37, No. 4, July 2001, pp. 1884-1886.
	R	
	S	
	T	

Examiner <i>Will J. Kelly</i>	Date Considered <i>5-14-03</i>
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